

ZAHNBUERSTE

Bibliographic data

Patent number: DE8215266 (U1)

Publication date: 1982-09-23

Inventor(s):

Applicant(s): WIETHOELTER, HORST, 4800 BIELEFELD, DE

Classification:

- international: A46B3/10; A46B7/08; A46B9/04; A46B3/00; A46B7/00; A46B9/00;
(IPC1-7): A46B3/10; A46B7/08; A46B9/04

- european:

Application number: DE19820015266U 19820526

Priority number(s): DE19820015266U 19820526

<Desc/Clms PAGE NUMBER 1>

Toothbrush Die vorliegende Neuerung betrifft eine Zahnbürste mit mehreren an der Zahnbürstekopf abtrennbar gesicherten, rotierbaren runden Zahnbürsten, die in jedem Fall an einer Träger und die Borsten an den Trägern bestehen. Mit den bekannten Zahnbürsten der generischen Art entsprechend der gezeigten Art sind die Träger bereit und an der Zahnbürstekopf an einer CD angeschlagen, die Achse der Rotation bildet eine Kugelkopf an der gegenüberliegenden Seite der Borsten mit einer Kugelförmigen Rille. Durch die Rillen werden die Träger geschwächt und außerhalb des RDs wird der Raum verringert, der für die Bestimmung der Borsten für den Anordnung dient. Die vorliegende Erfindung ist die Basis für das Objekt, um die beschriebene Hachteil zu reparieren und eine Zahnbürste entsprechend der gezeigten Art zu gestalten, die in der Art angeordnet ist, dass die Fragesteller eine mögliche Beborstung ermöglichen.

Das Objekt ist eine Erfindung, die in der Art, dass es eine Träger mit den Borsten an der unteren Basis in eine Rille an der Zahnbürstekopf angeschlagen. Die Träger der Rundbürste sind durch diese Maßnahme über die gesamte Basis für eine Beborstung vorteilhaft, so dass nicht nur eine Reihe von Borsten an der Zahnbürstekopf angeschlagen werden, sondern auch eine Neigung der Borstenreihen nach außen realisiert werden kann.

Die Beschränkungen der Beborstung der Träger werden vollständig vermieden, ohne die Gesamtfunktion der Zahnbürste zu beeinträchtigen.

<Desc/Clms PAGE NUMBER 2>

Other features of the innovation are subject-matter of Unteransprühen. Embodiments of the innovation are in the with added drawing shown and become in the following more near described.

Show: Fig. 1 a longitudinal section by one would innovation-in accordance with-
cat
Toothbrush in the head portion.

Fig. 2 a view toward the arrow II in Fig. 1 Fig. 3 a round brush in the section with dash-dotted
suggested toothbrush head after an other
Embodiment of the innovation.

Into the Fig. 1 and 2 toothbrush shown 10 is with three round brushes 11 provided, which are
releasable and rotatable at the u toothbrush head 12 attached. Each round brush 11 consists of a
carrier 13 and the bristles 14 attached to it.

At that the bristles 14 opposite side each carrier 13 provided with a formed journal 15 is. This
journal 15 is into a corresponding formed camp recess 16 of the toothbrush head 12 snapped.
Inertial 13 and journals 15 are integral in each case from plastic manufactured.

The journals are favourable-prove kugelförmig formed, since by this form both the light
rotatable is as well as the required axial determination of the round brushes ensured. Since the
carriers are 13 weakened by no recesses, they can become relative flat held.

For a problem-free Beborstung geügend "Feisch" is present.

In Fig. 3 is an embodiment of the innovation shown, is 13 direct with which the carrier into a
camp recess 16 of the toothbrush head 12 snapped. On an additional -

<Desc/Clms PAGE NUMBER 3>

One did without to journals.

By the imbedding of an essential part of the carrier 13 into the toothbrush head 12 the entire
overall height of very small held becomes. At the underside of the carrier 13 a central Drehspitze
is 17 formed, those ensured that between the underside of the carrier 13 and the bottom surface
the depot taking 16 remains a short distance present. The good rotatable of the carrier 13 in the
camp recess 16 is ensured thus also in the long term.

With the embodiment in accordance with Fig. 3 is it particularly convenient to implement the carrier 13 of each round brush 11 in the diameter large as the width of the toothbrush head 12. From it 16 openings at the long sides of the toothbrush head in the region of each camp recess, which facilitate the cleaning "A C-11-1, for the toothbrush within the bearing points of the round brushes 11, result. It is pointed out express that the partial imbedding of the carriers is 13 in the toothbrush head 12 also possible with the embodiments, with which the carriers 13 with a separate journal is provided.

S C h u t z A b s p r u C h e 1.) Toothbrush with several, rotatable round brushes attached at the toothbrush-head-releasable, which consist in each case of a carrier and the bristles attached at the carrier, characterised in that each carrier (13) with its bristles (14) remote bottom portion ci into a camp recess (16) of the toothbrush head (12) snapped is.

2.) Toothbrush according to claim 1, characterised in that at that the bristles (14) opposite side of each carrier (13) a journal (15) formed is, which is into a corresponding formed camp recess (16) of the ZahnbürstenL of head (12) snapped.

3.) Toothbrush according to claim 2, characterised in that the carriers (13) together with journal (15) integral from plastic made are. r2 4.) After toothbrush preceding claims, characterised in that each carrier (13) for instance to the half in the Zahnbürstenkopf (12) embedded is.

5.) Toothbrush according to claim 1, characterised in that at the underside of the carriers (13) a central arranged turning point (17) formed is, which rests upon the bottom of the u respective camp recess (16).

6.) Toothbrush after one of the preceding claims, characterised in that of the diameters of the carriers (13) is larger as the width of the toothbrush head (12).

7.) Toothbrush according to claim 2, characterised in that the journals (15) spherical formed are.

Wiethölter. 05-82



Fig. 1

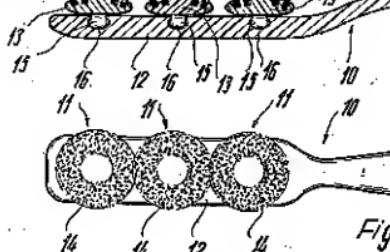


Fig. 2

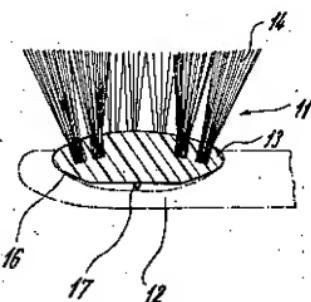


Fig. 3

6211266